

FASTA searches a protein or DNA sequence data bank
version 3.3t05 March 30, 2000

please cite:

Please cite:
W.R. Pearson & D.J. Lipman PNAS (1988) 85:2444-2448

```
/tmp/fastaCAAygaWej: 995 aa
>SEQ ID NO:2
vs /tmp/fastaDAAzgaWej library
searching /tmp/fastaDAAzgaWej library
```

1008 residues in 1 sequences

```
FASTA (3.34 January 2000) function [optimized, BL50 matrix (15:-5)] ktup: 2
join: 39, opt: 27, gap-pen: -12/ -2, width: 16
Scan time: 0.034                                     opt
```

Scan time: 0.034
The best scores are:
M13699 ACCESSION:M13699 NID: gi 180255 gb M13699. (1008) 2671

```
>>M13699 ACCESSION:M13699 NID: gi 180255 gb M13699.1 HUM (1008 aa)
  initn: 1414 init1: 972 opt: 2671
Smith-Waterman score: 3980; 57.002% identity in 1014 aa overlap (1-992:1-1008)
```

	10	20	30	40	50	
SEQ	MKILILGIFLFLCSPGW	AIDRHCYIGIEESIWN	YAPSGKNMLNEKPFSE	DLE----	FLQ	
	:	:	:	:	:	:
M13699	MKILILGIFLFLCSTP	AWAKEKHYYIGIETTWD	YA--SDHGEKKLISVD	TEHSNIYLQ		
	10	20	30	40	50	
	60	70	80	90	100	110
SEQ	GGQARKSFVFKKALYF	QYTDTNTRQRIIEKP	SWLGFLGPMIKAETGD	FIYVHVKNNASRAY		
	:	:	:	:	:	:
M13699	NGPDGRIGRLYKKALY	LQYTDETFRTTIEKPV	WLGLGPPIKAETGDK	VYVHLKNLASRPY		
	60	70	80	90	100	110
	120	130	140	150	160	170
SEQ	SYHPHGLTYSKENEAH	GAIYPDNTTGLQKEVE	YLEPGKQYTYKWYVEE	HQGPGPNDSNCV		
	:	:	:	:	:	:
M13699	TFHSHGITYYKEHE-	-GAIPDNTTDFQRADD	KVPYGEQYTYMLLAT	EESQSPGEDGNVC		
	120	130	140	150	160	170
	180	190	200	210	220	230
SEQ	TRIYHSHIDTARDVAS	GLIGPILTCKRGTLNGD	TEKDIDRSSFLMFSTT	DESRSWYSDEN		
	:	:	:	:	:	:
M13699	TRIYHSHIDAPKDIAS	GLIGPLIICKKDSL	DKEKEKHIDREFVVM	FVSVDENFSWYLEDN		
	180	190	200	210	220	230
	240	250	260	270	280	290
SEQ	IRAF-TESGKINTSDPR	FEESMSMQSINGYIYN	LPNLTMCAEDRVQWY	FVGMGGVADIH		
	:	:	:	:	:	:
M13699	IKTYCSEPEKVDDKND	EFQESNRMYSVNGYTF	GSLPGLSMCAEDRVK	WYLFGMGNEVDVH		
	240	250	260	270	280	290
	300	310	320	330	340	350
SEQ	PVYLRGQTLISRNRKDT	IMLFPSLED AFMVAKA	PGVWMLGCQ----	IHESMQAFFFKVS		
	:	:	:	:	:	:
M13699	AAFFHGQALTNNKYRID	TINLFPATLFDAYMVA	QNPGEWMLSCQNLNHL	KAGLOAFFQVQC		
	300	310	320	330	340	350

```

360      370      380      390      400      410
SEQ      NCQKPSTEAFVTGTHVIHYIIAAKEILWNYAPSGIDFFTKKNLTAAGSKSQLFFERSPTR
M13699  ECNKSSSKDNIRGKHVRHYIIAAEEIIWNYAPSGIDIFTKENLTAPGSDSAVFQEQTTR
360      370      380      390      400      410

420      430      440      450      460
SEQ      IGGTYKKLIYREYTDASFQTQKAR---EEHLGILGPVFKAEVGQTIKITFYNNASLPLSI
M13699  IGGSYKKLVYREYTDASFNTNRKERGPREEHLGILGPVIWAEVGDTIRVTFHNKGAYPLSI
420      430      440      450      460      470

470      480      490      500      510      520
SEQ      QPPGLHYNKSNEGLFYE---TPGG-STPPSSHVSPGTTFFVYTWEVPKDVGPSTDPNCL
M13699  EPIGVRFNKNNEGTYYSPNYPQSRVSPPSASHVAPTETFTYEWTVPKEVGPTNADPVCL
480      490      500      510      520      530

530      540      550      560      570      580
SEQ      TWFFYYSSVNGKKDINSGLLGPLLICRNGSLGDDGKQKGVDFEYLLATIFDENESNLLDE
M13699  AKMYYSADVPTKDIFTGLIGPMKICKKGSLSHANGRQKDVDFEYLFPTVFDENESLLED
540      550      560      570      580      590

590      600      610      620      630      640
SEQ      N-RTFITEPENIDKEDTDCQASNKMYSINGMYGNLPGLDTCGLDNLVHVFVSGSVEDL
M13699  NIRMFTTAPDQVDKEDEDFQESNKMHSNMGFMYGNQPGLTMCKGDSVVWYLFVSGNEADV
600      610      620      630      640      650

650      660      670      680      690      700
SEQ      HGIYFSGNTFTSLGARRDTIPMF PYTSQTLLMTPDSIGTFDLVCMTIKHNLGGMKHKYHV
M13699  HGIYFSGNTYLWRGERRD TANLFPQTS LTHMWPDT EGTFFNVECLTTDHYTGGMKQKYTV
660      670      680      690      700      710

710      720      730      740      750      760
SEQ      RQCGKPNPDQTQYQEEKIIITIAAEMEWDYSPSRKWENELHHLRRENQTSMYVDRSGTL
M13699  NQCRQSEDSTFYLGERTYY-IAAVEVEWDYSPQREWEKELHHLQEONVSN AFLDKGEFY
720      730      740      750      760      770

770      780      790      800      810      820
SEQ      LGSKYKKVLYRQYDDNTFTNQTKRNEGEKHL DILGPLILLNPGQIIQIIFKNKAARPYSI
M13699  IGSKYKKVVYRQYTDSTFRVPVERKAE EHLGILGPQLHADVGDKVKIIFKNMATRPYSI
780      790      800      810      820      830

830      840      850      860      870      880
SEQ      HAHGVKTNNSTVVP TQPG EIQIYT WQIPDR TGPTSLDFECIPWFYYSTVSVAKDLHSGLV
M13699  HAHGVQTESSTVTP TLPGETLTVVWKIPERSGAGTEDSACIPWAYYSTVDQVKDLYSGLI
840      850      860      870      880      890

```

```

      890      900      910      920      930
SEQ    GPLSVCR----KDINPN-IVHRVLHFMIFDENESWYFEDSINTYASKPNKVVDKENDNFQL
      ::: ::: : ::: . . : : : : : : : : : : : : : : : : : : : : : : : : : : : :
M13699 GPLIVCRRPYLKVFNP RRKLEFALLFLVFDENESWYLDDNIKTYS DHPEKVNKDDEEFIE
      900      910      920      930      940      950

      940      950      960      970      980      990
SEQ    SNQMHAINGRLFGNNQGITFHVGDVVNWYLGIGNEADLHTVHFHGH SFYKHKYLI
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
M13699 SNKMHAINGRMFGNLQGLTMHVGDEVNWYLMGMGNEIDLHTVHFHGH SFQYKHR
      960      970      980      990      1000

```

995 residues in 1 query sequences
 1008 residues in 1 library sequences
 Scomplib [version 3.3t05 March 30, 2000]
 start: Wed Sep 18 11:18:07 2002 done: Wed Sep 18 11:18:08 2002
 Scan time: 0.034 Display time: 1.433

Function used was FASTA